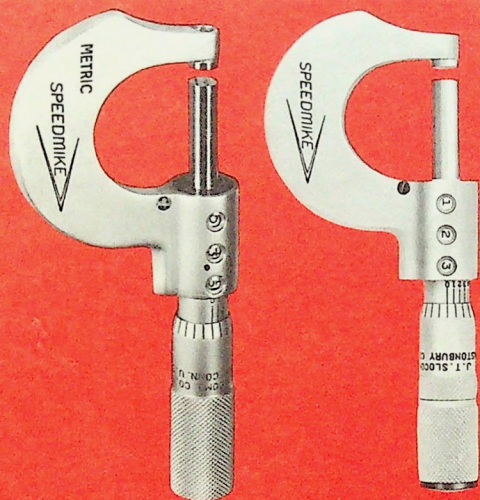


SLOCOMB MICROMETERS



FINE MICROMETERS SINCE 1891

LIFE TIME WARRANTY

Slocomb warrants the products described in this catalog fully against all defects in workmanship and material. There is no time limit or expiration date to this warranty and there are no gimmicks or reservations made. Obviously, normal wear and tear and damage to instruments are not covered under this guarantee as they are not defects in workmanship or material. Any instrument believed defective should be returned to the factory, attention Repair Department, with a note indicating the difficulty and any other comments. Prepay shipping charges and be sure to include your name and address and, if possible, information as to when and where purchased. Any item we find defective in workmanship or material will be corrected or replaced without charge.

For over 80 years the J. T. Slocomb Company has been recognized as a leader in the manufacture of micrometers. Old in years and experience but progressive in approach and performance, Slocomb has pioneered many of the most important types of micrometers in common use today. Some of these "firsts" are listed below.

- Standard Black Frame Micrometers
- Cylindrical Anvil Tube Micrometers
- Screw Thread Comparator Micrometers
- Direct Reading Micrometers
- Screw Thread Micrometers
- Quick Acting Dial Micrometers
- Snap Gage Micrometers
- Rigitube Micrometer Construction

CHECKING FOR ACCURACY

We recommend frequent checking of your micrometer until you build up confidence in its continuing accuracy. Always observe the following precautions when checking for accuracy of setting.

1. Make certain anvil and spindle faces are clean. Cleaning should be done with soft lint free paper.
2. Make certain the size block or setting standard referred to is accurate.
3. Make certain to have instructions for adjusting.

The large anvil and spindle faces wear extremely slowly. Readjustment is actually required only very, very rarely and more harm than good is done to micrometers by unnecessarily frequent adjusting.

GENERAL INFORMATION

ORDERING

Please specify complete part number and name of item when ordering. Slocomb Micrometers may be purchased at leading industrial distributors, hardware and automotive outlets. If a local source cannot be found, write for the name of the dealer nearest you. You can purchase direct from the factory only if there is no local source.

DELIVERY

Shipments are normally made via UPS, the most economical and fastest method. Customers wishing us to ship any other way should specify the preferred method. Since UPS cannot deliver to a Post Office box, a street address is required together with city, state, and zip code.

PRICES

Prices are contained in separate price list and are subject to change without notice.

REPRESENTATION

A network of industrial distributors throughout the nation represent Slocomb, and stock many of our micrometers. In those few sections where our micrometers are not available, they can be ordered directly from the factory.

REPAIR SERVICE

Skillful reconditioning of Slocomb products is an important service offered our customers. Unless otherwise specified when returning tools for repair, it is our practice to make a full and complete repair restoration, bringing each tool as nearly as practicable to new condition with respect to accuracy and durability. If you only wish a specific problem corrected and are otherwise satisfied with the condition of the instrument, please so advise when returning the tool so that we will only repair what is wanted. Naturally there is a greater charge involved in making a complete restoration than in correcting one or two specific problems. When returning goods, mark the package clearly with the sender's name and address and include instructions as to what is wanted.

PATENTS

Many items in this catalog are protected by issued or pending U.S. and foreign patents.

DEALER MATERIAL

Catalogs, folders, photographs and other sales aids are available on request.

CONVENTIONAL MICROMETER CALIPERS

SIZES FROM 1" to 12"

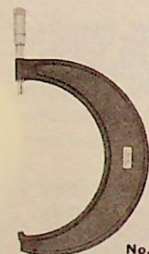
Now available in
satin chrome finish.



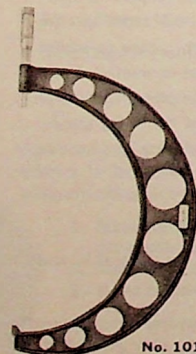
No. 1001



No. 1003



No. 1005



No. 1010

Quality materials, high level workmanship, closely supervised inspection, a respected guarantee and over 80 solid years of experience go into every micrometer bearing the Slocomb name. The combination of these factors results in incomparable accuracy and rugged dependability. Feature for feature, there is no finer measuring instrument on the market today than a Slocomb micrometer.

- Smaller micrometer frames are made from drop forged steel.
- Larger sizes are made from malleable iron with lightening holes to reduce weight.
- In the very largest sizes, Slocomb has introduced Rigtube construction, which combines the weight saving of tubular construction with greatest possible rigidity for accurate measurement.
- All frames are finished in a durable, non-slip black wrinkle enamel.
- Sleeves and thimbles have a lustrous satin chromium finish for easier reading.
- Anvil and spindle faces are lapped to assure flatness and parallelism.
- Correct micrometer setting is retained despite severe handling because of exclusive adjusting nut which has full length engagement with hardened tool steel spindle threads.

The Slocomb nut assembly eliminates the need for frequent adjustment commonly experienced with micrometers having slotted nuts.

Except for the 0-1/2" micrometers, which have a spindle diameter of .207", all Slocomb micrometers have spindles with .270" diameter, which gives 17% greater wearing area than most other micrometers which have a spindle diameter of only .250".

The exclusive compensating nut and tension spring provide for automatic elimination of end play due to gradual wear between the spindle and nut assembly. Slocomb Micrometers are the only micrometers with spindle end play automatically eliminated.

SIZES 1"-12"

MEASURING CAPACITY	BASIC PART NO.	MEASURING CAPACITY	BASIC PART NO.
0-1"	1001	6-7"	1007
1-2"	1002	7-8"	1008
2-3"	1003	8-9"	1009
3-4"	1004	9-10"	1010
4-5"	1005	10-11"	1011
5-6"	1006	11-12"	1012

CONVENTIONAL MICROMETER CALIPERS

SIZES FROM 12" to 60"

Since 1891, J. T. Slocomb Company has been regarded as pioneer manufacturers of micrometers in the 12" to 60" size range. Specialization in micrometers of this capacity has led to the development of a type of micrometer far superior to those offered competitively. Slocomb micrometers in this size grouping exceed normal specifications for accuracy and feature a built-in durability of construction which allows the kind of wear and usage to which larger micrometers are generally subjected, without loss of that accuracy. Sizes 12" to 60" are available from stock. Larger sizes may be quickly made to order.

No. 1015

No. 1023

Measuring Capacity	Basic Part No.
12-13"	1013
13-14"	1014
14-15"	1015
15-16"	1016
16-17"	1017
17-18"	1018
18-19"	1019
19-20"	1020
20-21"	1021
21-22"	1022
22-23"	1023
23-24"	1024
12-18"	1036
15-18"	1036-3
15-21"	1025-6

Measuring Capacity	Basic Part No.
18-21"	1025
18-24"	1037
21-24"	1026
21-27"	1027-6
24-27"	1027
24-30"	1038
27-30"	1028
27-33"	1029-6
30-33"	1029
30-36"	1039
33-36"	1030
36-42"	1031
42-48"	1032
48-54"	1033
54-60"	1034

STANDARD OPTIONAL TERMINALS

Description	Add to Micrometer Part No.
Carbide Tipped Anvil & Spindle	-001
Ball Terminals on Anvil & Spindle	-002
Rounded Anvil	-003
1/2" Dia. Discs on Anvil & Spindle	-004
60° Points on Anvil & Spindle	-006
Ball Attachment	-4879

Standard optional terminals are available on all micrometers in both 1"-12" and 12"-60" sizes.

OPTIONAL FEATURES AVAILABLE

Part Number Code	
1000 series	Plain
1100 series	With Cam Lock
1200 series	With Friction Stop
1300 series	With Vernier (.0001" Grad.)
1400 series	With CL & FS
1500 series	With CL & Vernier
1600 series	With FS & Vernier
1700 series	With FS, CL & V
1800 series	With Friction Thimble
1900 series	With CL & FT
2000 series	With V & FT
2100 series	With CL, V & FT

The first two digits indicate type, the last two digits indicate size

e.g.:

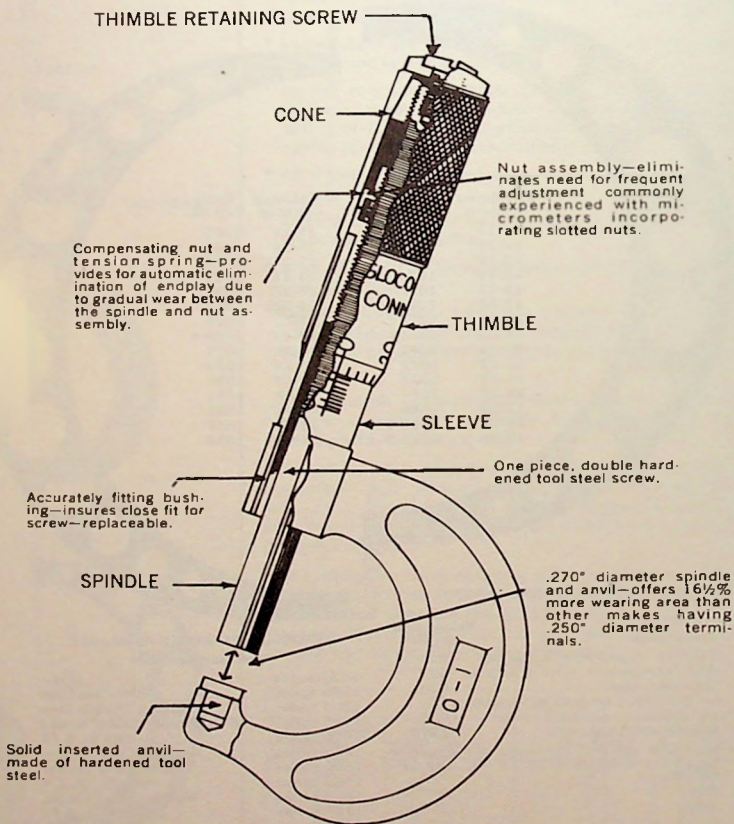
1001 is a plain 0-1" Micrometer

1124 is a 23-24" Micrometer with Cam Lock

(Standard optional features are available on all 1"-60" micrometers.)

CONSTRUCTION OF MICROMETER

Slocomb micrometers are famous for their extreme durability, ruggedness and variety of exclusive design features. Made from drop forged steel, malleable iron or rigitube construction dependent upon size and type, all frames are finished in a lasting, non-slip, black wrinkle enamel while sleeves and thimbles have lustrous satin chrome finish for easier reading. Anvil and spindle faces are lapped flat and parallel to assure accurate measurement.



OPTIONAL FEATURES



Friction Stop (Part No. Code 1200 Series) This feature controls the spindle pressure on the work being measured and assures accurate gaging at all times regardless of the user. In order to accomplish this the Friction Stop prevents rotation of the spindle after the proper gaging pressure is applied.



Friction Thimble (Part No. Code 1800 Series) A perfect addition to any Slocomb micrometer used for precision inspection work requiring the absolutely consistent accuracy provided by the elimination of spindle rotation. This feature allows one-hand use of the micrometer and guarantees uniform contact pressure at all times.



Cam Lock (Part No. Code 1100 Series) A new innovation for more efficient spindle locking. Will avoid accidental movement when removing the micrometer from work. Pre-set measurement is locked in place by a press of the lever, fast, easy, sure. Replaces old ring-type spindle clamp.



Vernier (Part No. Code 1300 Series) The addition of a vernier scale combines with the built-in rigidity of a Slocomb micrometer plus its outstanding resistance to wear to make it an ultra-precision tool allowing measurements to a tenth of a thousandth (.0001) of an inch.

The Friction Stop, Friction Thimble, Vernier and Cam Lock described here are all optional features available at a slight additional cost on all Slocomb micrometers. For your convenience a part number code series has been developed.

Part No. Code	Part No. Code	Part No. Code	Part No. Code
1000 series Plain	1300 series With Vernier (.0001" Grad.)	1600 series With FS and Vernier	1900 series With CL and FT
1100 series With Cam Lock	1400 series With CL and FS	1700 series With FS, CL and V	2000 series With V and FT
1200 series With Friction Stop	1500 series With CL and Vernier	1800 series With Friction Thimble	2100 series With CL, V and FT

The first two digits indicate type, the last two digits indicate size—e.g.
1001 is a plain 0-1" Micrometer—1124 is a 23-24" Micrometer with Cam Lock

OPTIONAL TERMINALS

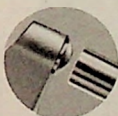
Following terminals are available on all Slocomb Micrometers. Specify choice by adding appropriate number to part number code shown above.



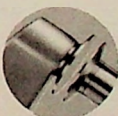
Carbide Terminals
—001



Ball End
—002



Rounded Anvil
—003



1/2" Diameter Discs
—004



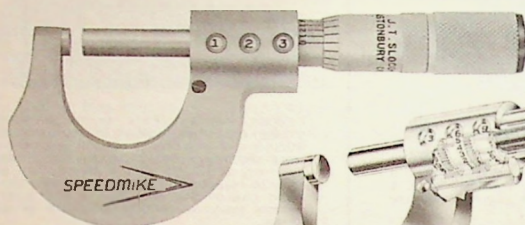
60° Points
—006



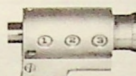
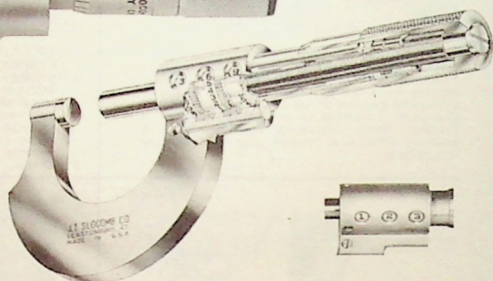
Ball Attachment
4879

The utility of your Slocomb micrometer can be considerably increased with the addition of a ball attachment. This attachment allows the easy measurement of rounded or irregular surfaces. The ball attachment may be added to the anvil or spindle, or two balls may be used, one on each terminal. Since the ball is .200" diameter, a simple .200" subtraction must be made from the reading for each ball used.

DIRECT READING MICROMETERS



No. 501-20

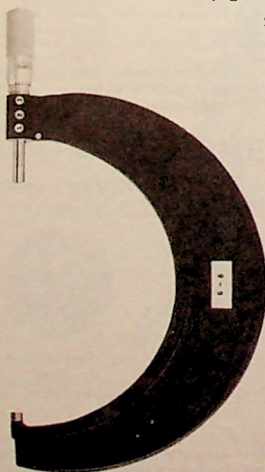


The direct reading Speedmike is another Slocomb first. This unique instrument differs from the conventional micrometer only in the method of reading a measurement. Instead of reading and interpolating from graduated scales on the sleeve and thimble, measurements are read directly from the 3 numbers appearing in 3 windows in the micrometer frame. Each window is shielded by a magnifying lens which enlarges the number and also prevents dust or foreign material from entering the micrometer. Numbers are indicated in thousandths (.000") of an inch. Graduations on the thimble provide for simple interpolation for reading ten thousandths (.0000") of an inch.

The Slocomb Speedmike saves calculating time, allows for easier measurement and eliminates errors. Like all Slocomb micrometers, the Speedmike incorporates the unique adjusting nut assembly which provides full engagement with the spindle thread. This exclusive feature greatly increases the ruggedness of the tool. Here, in every respect, is a micrometer welcomed by veterans and apprentices alike.

See page 10 for metric reading speedmike.

SPEEDMIKE DIRECT READING MICROMETERS



No. 506-13

MEASURING CAPACITY	DESCRIPTION	PART NO.
0-1"	Basic Micrometer	501-13
1-2"	Basic Micrometer	502-13
2-3"	Basic Micrometer	503-13
3-4"	Basic Micrometer	504-13
4-5"	Basic Micrometer	505-13
5-6"	Basic Micrometer	506-13

To specify optional features desired and to facilitate ordering add the following numbers to Part Nos. shown in place of the -13 which indicates the basic micrometer:

Friction Stop	-16
Friction Thimble	-20

STANDARD OPTIONAL TERMINALS

DESCRIPTION	ADD TO MICROMETER PART NO.
Carbide Tipped Anvil & Spindle	-001
Ball Terminals on Anvil & Spindle	-002
Rounded Anvil	-003
1/2" Dia. Discs on Anvil & Spindle	-004
60° Points on Anvil & Spindle	-006

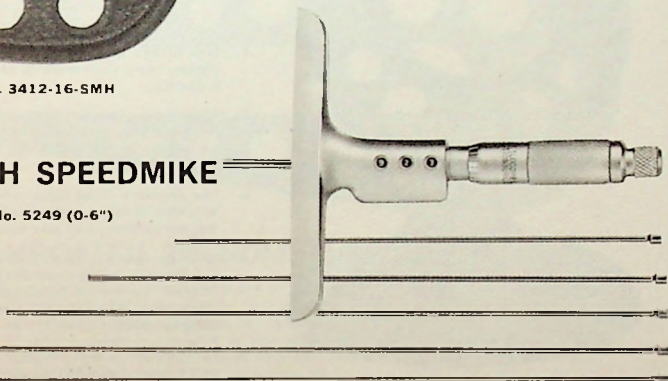


No. 3412-16-SMH

The direct reading Speedmike feature is available on all Slocomb micrometers regardless of size except the quick acting dial and snap gage micrometers. Sizes 0-1" through 5-6" are available from stock. Larger sizes are available on special order. The fully finished satin chrome frame is available only in the 0-1" size. Larger sizes incorporate the black, wrinkle finish frame with sleeve and thimble finished in satin chrome. Optional features available on Speedmike direct reading micrometers are the Friction Stop and Friction Thimble, the Locknut is not available. A Vernier is standard on all Slocomb Speedmike micrometers. All optional terminals including Carbide, 60° Points, Ball Ends, Rounded Anvils and 1/2 Inch Diameter Discs are available. The Speedmike feature can be applied to special types of micrometers.

DEPTH SPEEDMIKE

No. 5249 (0-6")



The advantages of greater speed and increased reading accuracy inherent with the direct reading feature have been successfully applied to a depth micrometer in the Slocomb Depth Speedmike. Most important, the direct reading feature eliminates the "backward" interpolation problem posed

by conventional depth micrometers. Additional design features include protective windows which magnify the digits, an exclusive adjusting nut which maintains correct setting and eliminates spindle end play.

Extension rods are 1/8" dia.

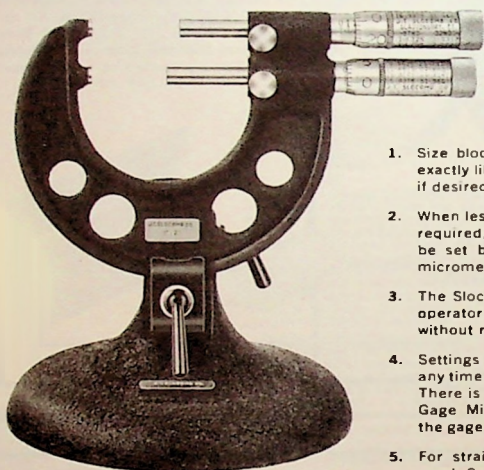
DEPTH SPEEDMIKE

PART NO.*	MEAS. RANGE	BASE LENGTH	CASE NO.
5948	0-3	2 1/2	5750
5949	0-6	2 1/2	5751
5950	0-9	2 1/2	6441
5951	0-12	2 1/2	6441
5248	0-3	4	5750
5249	0-6	4	5751
5250	0-9	4	6441
5251	0-12	4	6441

Add .13 to part no. for .0001 vernier graduations

SNAP GAGE MICROMETERS

The Slocomb Snap Gage Micrometer can eliminate the need for a complete line of fixed snap gages merely by setting the two micrometer spindles to the Go, No-Go sizes and locking them into position with the lockscrews provided. This remarkably versatile tool has many additional advantages:



No. 3422

No. 972 (Stand)

1. Size blocks may be used for setting exactly like a conventional snap gage, if desired.
2. When less precise measurements are required, the Slocomb Snap Gage may be set by reference to its standard micrometer scales.
3. The Slocomb Snap Gage informs the operator of exact settings at all times without reference to size blocks.
4. Settings may be quickly changed at any time, at the job or on the machine. There is no need for a Slocomb Snap Gage Micrometer to be returned to the gage department for new settings.
5. For straight measurements the Slocomb Snap Gage Micrometer may be used exactly as a conventional micrometer.

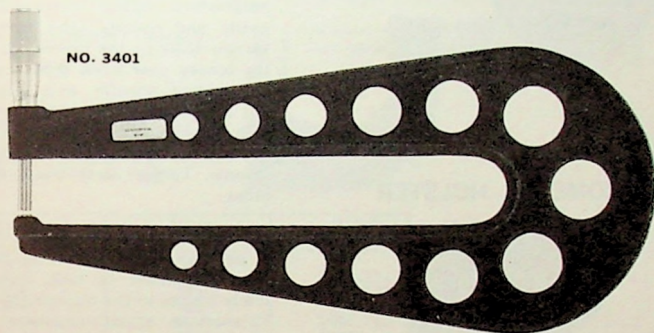
Normally furnished with flat spindle ends and rounded anvils. Other terminals available at special prices. Speedmike direct reading feature is not available.

MEASURING CAPACITY	BASIC PART NO.	MEASURING CAPACITY	BASIC PART NO.
0-1"	3421	3-4"	3424
1-2"	3422	4-5"	3425
2-3"	3423	5-6"	3426

All Snap Gage Micrometers are equipped with spindle locking screws. Other optional features such as Friction Stop, Friction Thimble and Vernier are not normally required therefore not listed although are available on special order. A sturdy stand (Part No. 972) is available for mounting of the Snap Gage Micrometer or any other type of micrometer at a convenient position on the bench leaving both hands free to handle the parts being checked. The stand consists of a solid rugged base and a swivel clamp which permits mounting the micrometer at any desired position.

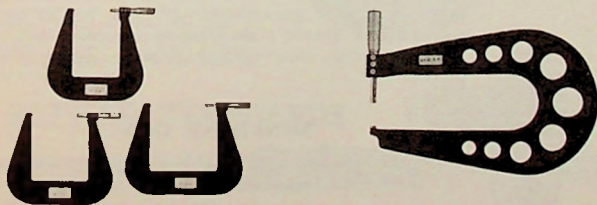
SHEET METAL MICROMETERS

Slocomb Sheet Metal Micrometers have been in widespread use for many years. Designed to meet the exacting and unique needs of calibration and measurement of sheet metal, plates and large, flat material such as paper, plastic and plywood, these micrometers incorporate all the construction features that have made the name Slocomb synonymous with accuracy and durability.



DEEP THROATED MICROMETERS

Deep throated micrometers are available made to order in an endless variety of throat depths and measuring or thickness capacities. Shown below is a group of 3 special designs, with 3-4" — 4-5" and 5-6" thickness capacities with 6" throat depth. For comparison, a 1-2" capacity 6" throat depth micrometer is also shown. All incorporate the Speedmike direct reading feature which is available on all deep throated micrometers at extra cost. If the thickness capacity and throat depth you need is not shown in the table, write for a quotation on your special requirements. A very wide variety of "semi-standard" models can be made quickly to suit your exact needs.

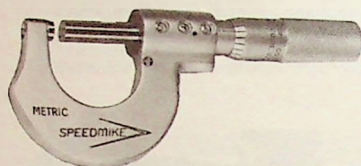


MEASURING CAPACITY	THROAT DEPTH		
	3"	6"	9"
0-1/2"	3404	*	*
0-1"	3412	3417	3401
1-2"	*	3418	3402
2-3"	*	3419	3403
3-4"	*	*	3405

*Sizes without part numbers and other sizes are available on special order.

METRIC DIRECT READING

SPEEDMIKE No. 501-22-000



The direct reading speedmike principle has been applied to the metric measuring system by Slocomb. Errors caused by reference to graduation marks and closely spaced lines are eliminated by the digital read out which indicates directly the number of millimeters and tenths of millimeters. .01MM increments are easily and quickly read from the vernier scale on the sleeve. Magnifying lenses over each digit and the long-lasting spindle and adjusting nut are standard features. Available with friction-stop or friction-thimble and plain or carbide tipped anvil and spindle. Larger sizes available on order.

MICROMETER HOLSTER



A genuine, English leather holster clips to pocket or belt, providing ready access to the micrometer. It is finished in scratch-resistant satin black leather.

Cat. No. 6450 (0-1")



HOT MILL MICROMETER

0-1" Capacity, 2" Throat depth

The ideal micrometer for measuring hot metal. Hardwood handle remains cool, even close to intense heat. Elongated anvil and spindle bevel aid work accessibility. Large easily read graduations. .270 dia. rugged tool steel spindle. Brazen anvil presents loosening, but is easily replaced. Satin-chrome finished sleeve and thimble.



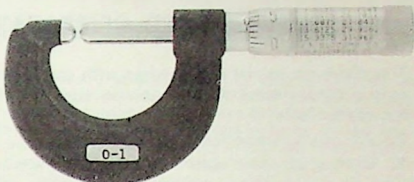
MINI-MIKE 0-1/2

Just 3" long, this miniature mike is designed to provide dependable accuracy on the small measuring job. Cut away frame allows entrance into relatively inaccessible places. Non-wearing nut with full spindle thread contact. Easy-to-read, black numerals on satin chrome back ground.

Part No.	Anvil Style
3420 - 000	Flat Tool Steel
3420 - 001	Flat Carbide
3420 - 003	Rounded Steel

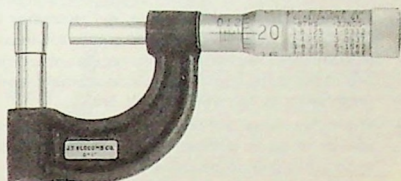
Curved Surface Micrometer No. 1001-002

Fitted with spherical ends on both the anvil and spindle this micrometer is well adapted to the measurement of curved surfaces where flat terminals cannot be used. It is available in the 0-1", 1-2", and 2-3" sizes and can be furnished with friction stop, friction thimble, locknut, .0001" graduations or any combination of these optional features. Larger sizes are also available.



Tube Micrometer Caliper No. 1091

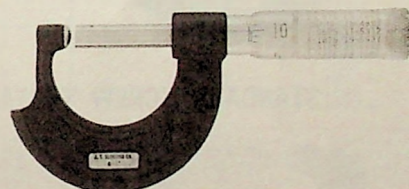
The Slocomb Tube Micrometer incorporating a cylindrical anvil is designed to measure the walls of tubes or the distance of a hole from the edge of a work piece. Special anvil diameters other than those listed are available on order.



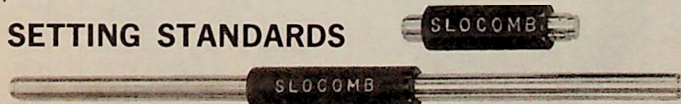
MEASURING CAPACITY	ANVIL DIAMETER	BASIC PART NO.
0-1"	.375"	1091
0-1"	.250"	1091-111
0-1"	.175"	1091-109
0-1"	.125"	1091-108
0-1"	.093"	1091-110
1-2"	.375"	1092
2-3"	.375"	1093

Tube Micrometer Caliper With Rounded Anvil No. 1098

A rounded anvil is the feature of this Slocomb Tube Micrometer, also ideally suited to tube wall measurement and like work. Available in the 0-1" size, this micrometer is similar to the standard Slocomb 0-1" instrument with a rounded anvil but incorporates a frame cut away under the anvil to fit inside tubing as small as $\frac{1}{16}$ " I.D. Available with locknut, vernier, friction thimble or friction stop as optional features.



SETTING STANDARDS

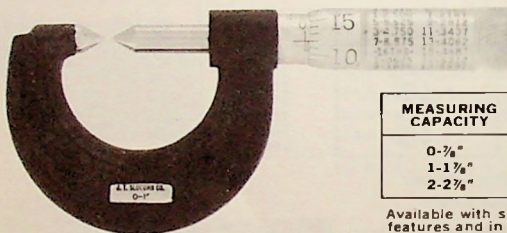


Designed for testing micrometers and keeping them in proper adjustment these Slocomb Setting Standards are made of tool steel with one flat and one spherical end hardened, ground and lapped to highest accuracy. While many other makes of setting standards are provided with 2 spherical ends, this type does not provide the ability to check the alignment of the micrometer anvil and spindle faces. Slocomb setting standards, furnished with one flat and one spherical end, allow the immediate locating of the setting standard against the micrometer terminal eliminating any doubt concerning proper alignment. Slocomb setting standards are protected by insulating hand grips to avoid expansion or contraction due to handling or temperature changes and are available in sizes 1" through 54". Larger sizes and special lengths can be quickly supplied to meet special requirements.

SCREW THREAD COMPARATOR MICROMETER

This Slocomb model is furnished with black, wrinkle finish frame, graduated to read in thousandths (.001) of an inch. It is extremely useful in a number of measuring applications:

1. For quick comparisons of thread sizes.
2. Cutting screw threads in a lathe to fit a particular size nut, the tap may be measured and the threads then readily cut to the same size.
3. Because the terminals have $\frac{1}{64}$ " diameter flat ends and the micrometer is adjusted to zero when the flat points are in contact, the Slocomb Screw Thread Micrometer may be used as a regular micrometer when it is necessary to measure at the bottom of a groove, in a small recess or the thickness of curved surfaces such as the web of twist drills.
4. While this model will compare pitch diameters it is not intended to give absolute values of pitch diameters. For this purpose the Standard Screw Thread Micrometers should be used.

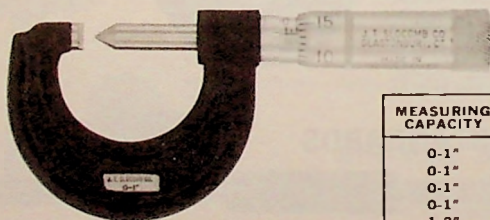


No. 1001-006

MEASURING CAPACITY	BASIC PART NO.
0- $\frac{7}{8}$ "	1001-006
1-1 $\frac{1}{8}$ "	1002-006
2-2 $\frac{7}{8}$ "	1003-006

Available with standard optional features and in larger sizes.

STANDARD SCREW THREAD MICROMETER



No. 1051

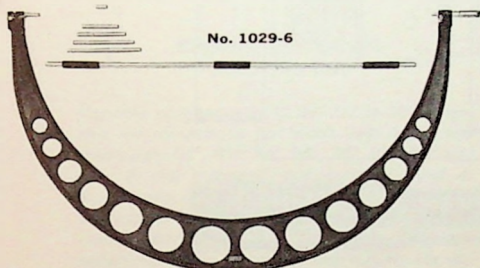
MEASURING CAPACITY	PITCH RANGE	BASIC PART NO.
0-1"	8-13	1051
0-1"	14-20	1052
0-1"	22-30	1053
0-1"	32-40	1054
1-2"	4 $\frac{1}{2}$ -7	1056
1-2"	8-13	1057
1-2"	14-20	1058
1-2"	22-30	1055
1-2"	32-40	1070
2-3"	2 $\frac{1}{4}$ -4	1059
2-3"	4 $\frac{1}{2}$ -7	1063
2-3"	8-13	1068
2-3"	14-20	1062
2-3"	22-30	1061
2-3"	32-40	1066

Slocomb Screw Thread Micrometers are designed for accurate measurement of the pitch diameter of screw threads. They are provided with a pointed spindle and double V anvil for proper contact with the screw thread and are furnished for National Standard Threads. The anvil is fixed and nonrotating for extreme accuracy. Information relative to the pitch range and form of thread is marked on the thimble. Slocomb Screw Thread Micrometers for other forms and pitches of threads not indicated in the table are available on special order.

Standard optional features and larger sizes available.

LARGE RANGE MICROMETERS

Slocomb offers the most complete line available today of outside micrometer calipers in larger sizes up to 60". These fine micrometers offer the same quality features as smaller size Slocomb micrometers plus design and construction specially suited to the requirements of larger micrometers, such as ribbed malleable cast iron frames perforated for lightness in sizes up to 30" and Rigtube fabrication in sizes up to 60". Slocomb Range Micrometers are famous for their ruggedness and rigidity meeting Federal specifications as well as far exceeding competitive micrometer performance in deflection tests.

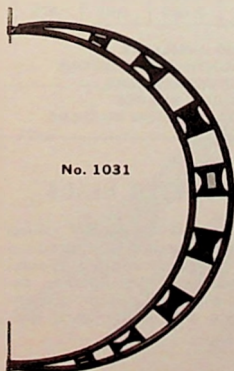


Range micrometers in sizes up to 30" feature malleable iron frames with lightening holes in durable, non-slip, black wrinkle finish. Sleeves and thimbles are satin chrome finished for easier reading. Correct micrometer setting is always retained despite severe handling because of an exclusive adjusting nut which has full length engagement with hardened tool steel spindle threads. The Slocomb nut assembly eliminates the need for frequent adjustment commonly experienced with micrometers having slotted nuts. Three anvils (1", 2" and 3") are furnished with 3" measuring Range Micrometers. 4", 5" and 6" anvils are available to extend the measuring capacity of 3" Range Micrometers to 6". Six anvils are offered with Range Micrometers in the 6" group. Each Range Micrometer is furnished with a setting standard and is shipped in a plywood box.

Cast Malleable Frame Range Micrometers

3 Inch Range		6 Inch Range	
Measuring Capacity	Part No.	Measuring Capacity	Part No.
15-18"	1036-3	12-18"	1036
18-21"	1025	15-21"	1025-6
21-24"	1026	18-24"	1037
24-27"	1027	21-27"	1027-6
27-30"	1028	24-30"	1038
30-33"	1029	27-33"	1029-6

Aircraft type reinforced tubular construction provides the ideal combination of light weight for easy handling and rigidity for assured accuracy in Slocomb Range micrometers in larger sizes. Available from stock in sizes from 30" up to 60", even larger sizes can be supplied on special order. Slocomb Rigtube Range micrometers, like all other Slocomb micrometers regardless of size incorporate the exclusive compensating nut and tension spring provided for automatic elimination of endplay due to gradual wear between the spindle and nut assembly. Slocomb Micrometers are the only micrometers with spindle endplay automatically eliminated.



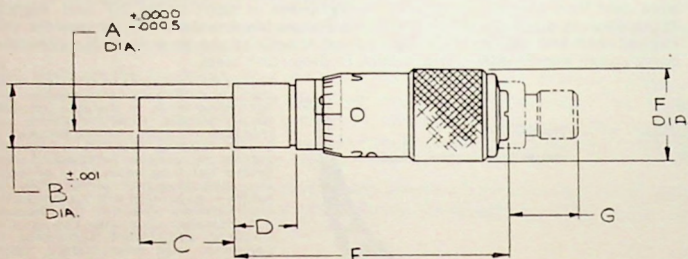
Measuring Capacity	Part No.	Weight lbs.
30-36"	1039	8.5
36-42"	1031	9.25
42-48"	1032	10.00
48-54"	1033	11.75
54-60"	1034	12.5

Includes plywood shipping and storage box, set of 6 matched interchangeable anvils and setting standard to check micrometer adjustment.

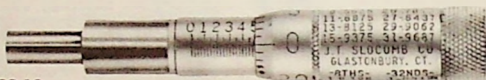
Slocomb optional features including Friction Stop, Friction Thimble and Vernier are available on large micrometers of all sizes. A Locknut is provided as a standard feature. Also available are Slocomb optional terminals including Ball End, 60° Points, Rounded Anvil, 1/2" Diameter Discs and Carbide.

MICROMETER HEADS

Easily adaptable to special machinery, tools or fixtures, Slocomb Micrometer Heads may be fastened with soft solder or split clamps. These fine micrometer heads are of the same design and construction as those used in complete Slocomb Micrometers.



No. 3408-10



No. 3474-10

Micrometer Heads—Critical Dimensions

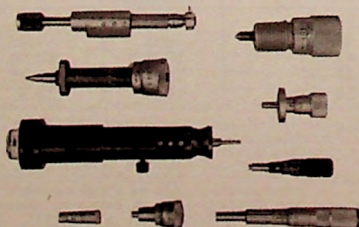
PART NO.	RANGE	A	B	C	D	E	F	G
3474-10	0 - 1/2"	.207	.375	.562	.390	1.625	.562	
3474-13	0 - 1/2"	.207	.375	.562	.390	1.625	.562	
3408-10	0 - 1"	.270	.436	1.125	.750	3.125	.593	
3408-12	0 - 1"	.270	.436	1.125	.750	3.125	.593	.375
3408-13	0 - 1"	.270	.436	1.125	.750	3.125	.593	
3408-16	0 - 1"	.270	.436	1.125	.750	3.125	.593	.375

- 10 Graduated .001
- 12 .001 With Friction Stop
- 13 Graduated .0001
- 16 .0001 With Friction Stop

ALSO AVAILABLE
 SPECIAL MOUNTING DIMENSIONS
 SPECIAL SPINDLE LENGTHS
 SPECIAL SPINDLE SHAPES
 REVERSED GRADUATION MARKING

SPECIAL MICROMETER HEADS

Slocomb is frequently called upon to design and produce micrometer heads for special applications. Should you require a special design, our engineers will gladly work with you.



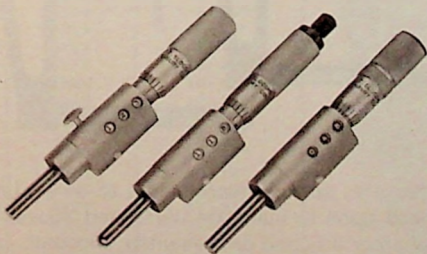
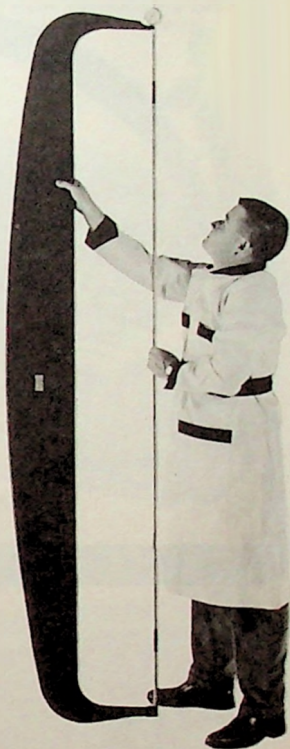
SPECIAL MICROMETERS

In addition to the Slocomb line of over 900 different micrometer models, custom micrometers can be designed to meet your specific requirements. The "specials" illustrated typify the design service offered.

SPECIAL 90" RANGE MICROMETER

Capable of measuring in the 82" to 90" range, this micrometer is furnished with eight end measures: 82", 83", 84", 85", 86", 87", 88" and 89". A dial indicator, conventional head or Speedmike direct reading feature can be incorporated. Rigtube type reinforced tubular construction provides a combination of light weight for easy handling and rigidity for assured accuracy.

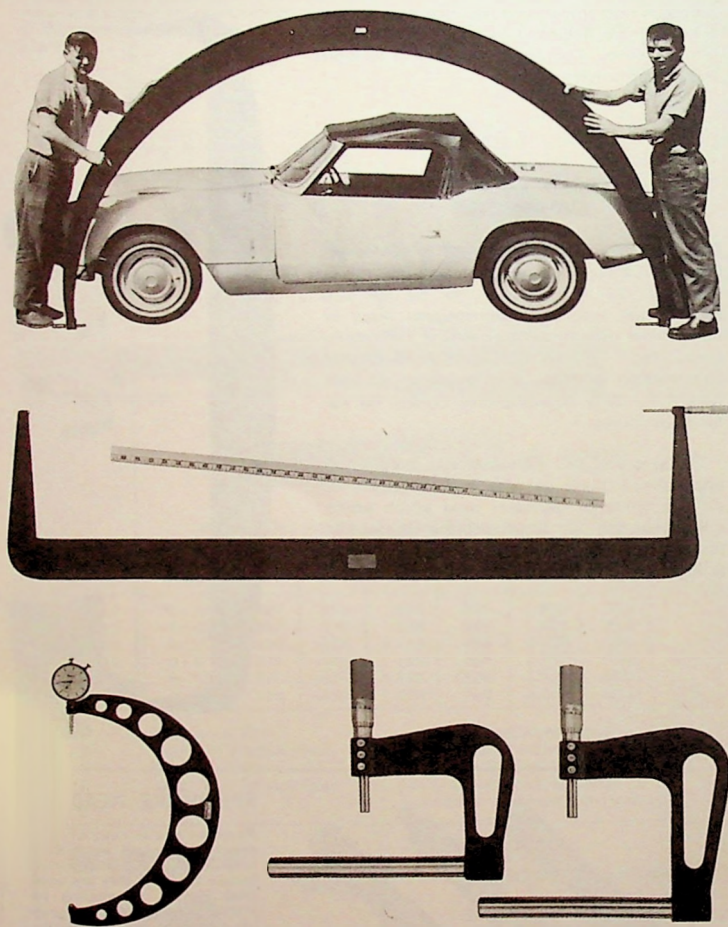
The shape of the micrometer is dictated by applications such as the measurement of flanges on large diameter pipe which would not accept the "C" shaped frame common to micrometers. Weight is 23 lbs. Overall length is 95". Maximum frame section depth is 14".



SPEEDMIKE HEADS

Remove the threat of .025 errors, and reduce setup time, thus add a persuasive product feature wherever they are used. They feature non-wearing adjusting nut for long accurate life, full spindle thread contact, non-glare satin chrome finish. Available with forward (conventional) or reverse readout, flat or rounded spindle, with or without vernier, and many more custom options.

SPECIAL MICROMETERS



There are times when industry requires special micrometers to do an unusual job. Some that we have been called upon to build are illustrated above. If you have a need for an "odd ball", whether it is one or a quantity, Slocomb can aid in the design and build the micrometer for you.

MICROMETER SETS WITH CASES

Where complete sets of micrometers are to be kept free from dust and dirt, Slocomb Storage Cases are recommended. They are fabricated of hard rubbed hardwoods, fitted with heavy duty hardware and clasp. Micrometers are held frame down in slotted racks for best protection and easy identification.

Micrometer Set 0 - 6" Size

No. 3501-10

Includes six micrometers covering the 0-1" thru 5-6" sizes. Provision is made for storage of 5 setting standards.

Micrometer Set 6 - 12" Size

No. 3510-10

Includes six micrometers covering 6-7" thru 11-12" sizes. Provision is made for storage of 5 setting standards.

Micrometer Set 0 - 12" Size

No. 3505-10

Includes twelve micrometers covering the 0-1" thru the 11-12" sizes. Provision is made for storage of 11 setting standards.

Storage Cases (Individual Micrometers)

Durable, attractively finished cases are available for the storage and protection of individual micrometers. Depending upon size, they are available in mahogany, plywood or leatherette covered steel.

Part No.	Description
4261	Case—For 0 - 1" thru 5 - 6"
4281	Case—For 6 - 7" thru 11 - 12"
4245	Case—For 0 - 1" thru 11 - 12"



No. 3501-10

Storage Cases (Individual Micrometers)

Part No.	Size
5901	0 - 1"
5902	1 - 2"
5903	2 - 3"
5904	3 - 4"
5905	4 - 5"
5906	5 - 6"
5907	6 - 7"
5908	7 - 8"
5909	8 - 9"
5910	9 - 10"
5911	10 - 11"
5912	11 - 12"
5913	12 - 13"
5914	13 - 14"
5915	14 - 15"
5916	15 - 16"
5917	16 - 17"
5918	17 - 18"
5919	18 - 19"
5920	19 - 20"
5921	20 - 21"
5922	21 - 22"
5923	22 - 23"
5924	23 - 24"



No. 3505-10

QUICK-SPOT TRANSFER PUNCH



Quick Spot Jr.
SHOWN ACTUAL SIZE

Whatever the shape of the holes, you can precisely find the centers, and transfer them with Slocomb's Quick-spot. No longer a need for an assortment of transfer punches that are frequently only approximately right, nor for costly and slow setups. Quick-spot covers a broad range of hole diameters, fits precisely, and takes seconds to use. Accurate to .002".

Specification	Quick-Spot	Quick-Spot, Jr.
Part Number	5960	5947
*Number of transfer punches replaced	64	30
Diameter of holes accurately transferred	3/16" to 1-3/16"	1/8" to 17/32"
Min distance to shoulder for centering holes	23/32"	3/8"

*Based on 1/64" increments

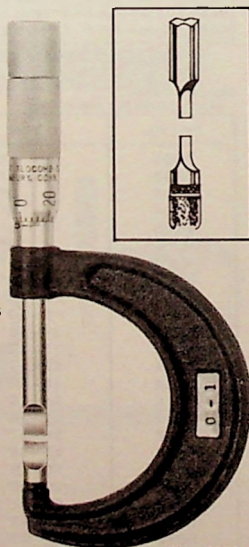
BLADE MICROMETER

The Slocomb blade micrometer incorporates Slocomb precision and accuracy in a uniquely different instrument. Blade mike enables the operator to accurately measure narrow recesses, out-of-reach grooves, slots, etc. Spindle and anvil are non-rotating. Blade ends are .020" thick and 5/32" long. Designed with Slocomb's exclusive adjusting nut which maintains correct setting and eliminates spindle end play.

Part No.	Size
3465	0 - 1"
3466	1 - 2"
3467	2 - 3"
3468	3 - 4"
3469	4 - 5"

Larger sizes available on special order.

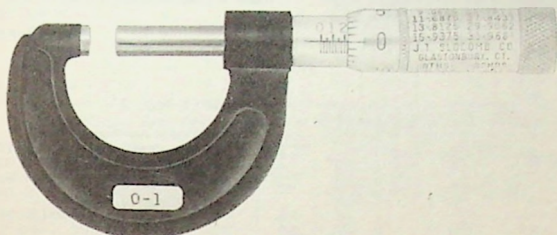
Not available with speedmike feature.



No. 3465

HOW TO READ A MICROMETER (Fig. 1)

By careful observance of a few directions, the ability to read a micrometer caliper can be easily acquired. Keep in mind that a micrometer caliper is a precision instrument and should be handled carefully to preserve its accuracy.



PRINCIPLE OF OPERATION

A micrometer is a measuring device which combines the double contact of slide calipers with a screw adjustment which may be read with great accuracy. It divides an inch into 1000 parts which is expressed decimally to 3 places, .000. The screw adjustment, which moves the spindle to and from the anvil, is turned by the thimble. As the

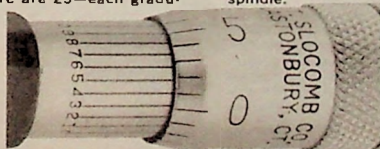
pitch of the screw thread is 1/40th of an inch, it takes 40 complete revolutions of the thimble to advance or retract the spindle a distance of an inch. In other words, one revolution of the thimble is equivalent to 1/40th of an inch or .025" expressed decimally.

How To Read the Graduations on a Conventional Micrometer to Thousandths of an inch (.000") (Fig. 2)

1. Observe the graduations on the sleeve, each graduation being .025". Every fourth graduation is marked with a whole number from 1 to 10; these numbers indicating one hundred thousandths of an inch (4 x .025 is .100" decimally expressed.)
2. Observe the graduations on the bevel of the thimble. There are 25—each gradu-

ation being 1/25th of a revolution of the thimble. As one revolution of the thimble is .025" (see paragraph 1)—each graduation is then 1/25th of .025" or .001" expressed decimally.

3. Add the two readings together to get the measurement or the distance between the anvil and the measuring end of the spindle.



How To Read a Conventional Micrometer Caliper to Ten-Thousandths of an inch (.0000")

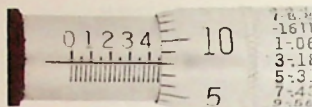
On the sleeve of a conventional micrometer graduated to read to ten-thousandths of an inch is a 3rd scale (vernier) with 11 parallel lines occupying the same space as ten lines on the thimble. Lines on the sleeve are numbered 0 to 10. The difference between the spaces on the sleeve and those on the

thimble is one tenth of a space on the thimble or 1/10th of a thousandth (.0001" expressed decimally). Read the number of the line on the sleeve that most nearly coincides with a line on the thimble and add it to the previous measurements.

(continued)

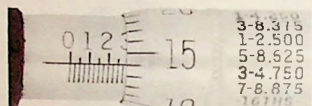
HOW TO READ A MICROMETER

(continued from previous page)



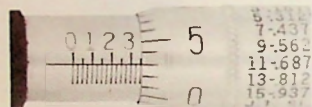
EXAMPLE NO. 1

The reading is composed of
 4 large graduations or $4 \times .100 = .400''$
 2 small graduations or $2 \times .025 = .050''$
 and 8 graduations on the thimble
 or $8 \times .001 = .008''$
 Total Reading .458''



EXAMPLE NO. 2

The reading is composed of
 2 large graduations or $2 \times .100 = .200''$
 3 small graduations or $3 \times .025 = .075''$
 and 14 graduations on the thimble
 or $14 \times .001 = .014''$
 Total Reading .289''



EXAMPLE NO. 3

The reading is composed of
 3 large graduations or $3 \times .100 = .300''$
 2 small graduations or $2 \times .025 = .050''$
 and 3 graduations on the thimble
 or $3 \times .001 = .003''$
 Total Reading .353''

HOW TO READ THE "SPEEDMIKE" MICROMETER

The Slocomb SPEEDMIKE differs from the conventional micrometer caliper only in the system of reading a measurement. With the conventional micrometer, the measurement is read from graduated scales on the sleeve and the thimble. With the speedmike, the following simple procedure is used.

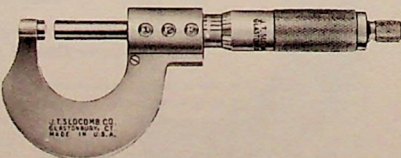
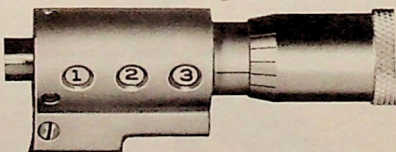
How to Read The Speedmike to Thousandths (.000") of an Inch

Measurements with the SPEEDMIKE are read directly from the numbers appearing on the three windows in the frame and are expressed in thousandths of an inch (.000").

When numbers appear partially in view, use the number which shows the greater part of itself for reading to the nearest .001". The graduations on the thimble provide for simple interpolation for reading tenths of a thousandth.

How to Read The Speedmike to Ten Thousandths (.0000") of an Inch

The pitch of the screw being 50, one revolution of the thimble is $1/50$ th of an inch or .020" expressed decimally. As there are 20 graduations on the bevel of the spindle, each graduation is $1/20$ th of a revolution ($1/20$ of .020") or .001" expressed decimally. Read the measurement to thousandths. Use the vernier scale for measurements to a tenth of a thousandth of an inch.



Decimal Equivalents of Fractional Parts of an Inch

Fraction	Decimal	Fraction	Decimal	Fraction	Decimal	Fraction	Decimal
$\frac{1}{16}$	01563	$\frac{1}{8}$	02500	$\frac{1}{4}$	03125	$\frac{3}{8}$	03750
$\frac{3}{16}$	04688	$\frac{1}{4}$	03125	$\frac{1}{2}$	05000	$\frac{5}{8}$	06250
$\frac{1}{2}$	06250	$\frac{3}{4}$	07500	$\frac{1}{1}$	1.00000		
$\frac{5}{16}$	07813	$\frac{1}{2}$	05000				
$\frac{3}{8}$	09375	$\frac{3}{4}$	07500				
$\frac{7}{16}$	10938	$\frac{1}{1}$	1.00000				
$\frac{1}{1}$	12500						
$\frac{9}{16}$	14063						
$\frac{5}{8}$	15625						
$\frac{11}{16}$	17188						
$\frac{3}{4}$	18750						
$\frac{13}{16}$	20313						
$\frac{7}{8}$	21875						
$\frac{15}{16}$	23438						
$\frac{1}{1}$	25000						

Wire Gage Standards—Sizes in Decimal Parts of an Inch

No. of Wire	Brown & Sharpe (American) Non-Ferrous Metals	Birmingham or Stubbs Iron Wire	American S. & W. Co.'s (Washburn & Moen) Std. Steel Wire	American S. & W. Co.'s Music Wire	Imperial Wire	Stubbs Steel Wire	U. S. Std. Gauge for Sheet Steel, Iron & Steel	No. of Wire
7-0's	.651354	—	.4900	—	500	—	500	7-0's
6-0's	.580049	—	.4615	.004	464	—	.46875	6-0's
5-0's	.516549	.500	.4305	.005	432	—	.4375	5-0's
4-0's	.460	.454	.3938	.006	400	—	.40625	4-0's
000	.40964	.425	.3625	.007	372	—	.375	000
00	.3648	.380	.3310	.008	348	—	.34375	00
0	.32486	.340	.3065	.009	324	—	.3125	0
1	.2893	.300	.2830	.010	300	.227	.28125	1
2	.25763	.284	.2625	.011	276	.219	.265625	2
3	.22942	.259	.2437	.012	252	.212	.250	3
4	.20431	.238	.2253	.013	232	.207	.234375	4
5	.18194	.220	.2070	.014	212	.204	.21875	5
6	.16202	.203	.1920	.016	192	.201	.203125	6
7	.14428	.180	.1770	.018	176	.199	.1875	7
8	.12849	.165	.1620	.020	160	.197	.171875	8
9	.11443	.148	.1483	.022	144	.194	.15625	9
10	.10189	.134	.1350	.024	128	.191	.140625	10
11	.090742	.120	.1205	.026	116	.188	.125	11
12	.080808	.109	.1055	.029	104	.185	.109375	12
13	.071961	.095	.0915	.031	92	.182	.09375	13
14	.064084	.083	.0800	.033	80	.180	.078125	14
15	.057068	.072	.0720	.035	67	.178	.0703125	15
16	.05082	.065	.0625	.037	64	.175	.0625	16
17	.045257	.058	.0540	.039	56	.172	.05625	17
18	.040303	.049	.0475	.041	48	.168	.050	18
19	.03589	.042	.0410	.043	40	.164	.04375	19
20	.031961	.035	.0348	.045	36	.161	.0375	20
21	.028462	.032	.0317	.047	32	.157	.034375	21
22	.025347	.028	.0286	.049	28	.155	.03125	22
23	.022571	.025	.0258	.051	24	.151	.028125	23
24	.0201	.022	.0230	.055	22	.148	.025	24
25	.0179	.020	.0204	.059	20	.146	.021875	25
26	.01594	.018	.0181	.063	18	.143	.01875	26
27	.014195	.016	.0173	.067	16	.140	.0171875	27
28	.012641	.014	.0162	.071	14	.130	.015625	28
29	.011257	.013	.0150	.075	13	.124	.0140625	29
30	.010025	.012	.0140	.080	12	.121	.0125	30
31	.008928	.010	.0132	.085	11	.120	.0109375	31
32	.00795	.009	.0128	.090	10	.115	.01015625	32
33	.00708	.008	.0118	.095	10	.112	.009375	33
34	.006304	.007	.0104	—	.092	.110	.00859375	34
35	.005614	.005	.0095	—	.084	.108	.0078125	35
36	.005	.004	.0090	—	.076	.106	.00703125	36
37	.004453	—	.0085	—	.068	.103	.00640625	37
38	.003965	—	.0080	—	.060	.101	.00625	38
39	.003531	—	.0075	—	.052	.099	—	39
40	.003144	—	.0070	—	.048	.097	—	40

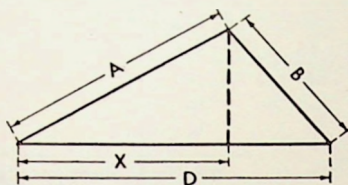
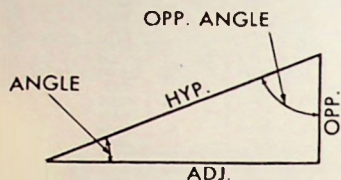
*Stubbs' Iron Wire Gage is known as English Standard Wire or Birmingham Gage which designates Stubbs' soft wire sizes. Stubbs' Steel Wire Gage is used in measuring drawn steel wire or drill rods of Stubbs' make.

Decimal Equivalents of the Numbers of Twist Drill Gage

For twist drills and High Speed Steel drill rod. Not to be confused with Stubbs' Steel Wire Sizes.

No.	Size	No.	Size	No.	Size	No.	Size	No.	Size	No.	Size	No.	Size
1	.2280	11	.1910	21	.1590	31	.1200	41	.0960	51	.0670	61	.0390
2	.2210	12	.1890	22	.1570	32	.1160	42	.0935	52	.0635	62	.0380
3	.2130	13	.1850	23	.1540	33	.1130	43	.0900	53	.0595	63	.0370
4	.2090	14	.1820	24	.1520	34	.1100	44	.0860	54	.0560	64	.0360
5	.2055	15	.1800	25	.1495	35	.1080	45	.0820	55	.0520	65	.0350
6	.2010	16	.1770	26	.1470	36	.1065	46	.0810	56	.0465	66	.0330
7	.2010	17	.1730	27	.1440	37	.1040	47	.0785	57	.0430	67	.0320
8	.1990	18	.1695	28	.1405	38	.1015	48	.0760	58	.0420	68	.0310
9	.1960	19	.1660	29	.1360	39	.0995	49	.0730	59	.0410	69	.0295
10	.1935	20	.1610	30	.1285	40	.0960	50	.0700	60	.0400	70	.0280

Table for Solving Right Angled Triangles



When A, B & D Are Given: $X = \frac{D^2 + A^2 - B^2}{2D}$

Parts Given	PARTS TO BE FOUND				
	Hypotenuse	Adjacent	Opposite	Angle	Opposite Angle
Hypotenuse & Adjacent			$\sqrt{\text{Hyp.}^2 - \text{Adj.}^2}$	$\cos = \frac{\text{Adj.}}{\text{Hyp.}}$	$\sin = \frac{\text{Adj.}}{\text{Hyp.}}$
Hypotenuse & Opposite		$\sqrt{\text{Hyp.}^2 - \text{Opp.}^2}$		$\sin = \frac{\text{Opp.}}{\text{Hyp.}}$	$\cos = \frac{\text{Opp.}}{\text{Hyp.}}$
Hypotenuse & Angle		$\text{Hyp.} \times \cos$	$\text{Hyp.} \times \sin$		90°-Angle
Adjacent & Opposite	$\sqrt{\text{Adj.}^2 + \text{Opp.}^2}$			$\tan = \frac{\text{Opp.}}{\text{Adj.}}$	$\cot = \frac{\text{Opp.}}{\text{Adj.}}$
Adjacent & Angle	$\frac{\text{Adj.}}{\cos}$		$\text{Adj.} \times \tan$		90°-Angle
Opposite & Angle	$\frac{\text{Opp.}}{\sin}$	$\text{Opp.} \times \cot$			90°-Angle

Useful Rules

To Find Circumference

Multiply Diameter by
3.1416 or
Divide Diameter by
0.3183

To Find Side of an Inscribed Square

Multiply Diameter by
0.7071 or
Multiply Circumference by
0.2251 or
Divide Circumference by
4.4428

To Find the Area of a Circle

Multiply Circumference by
 $\frac{1}{4}$ of the Diameter or
Multiply the Square of:
Diameter by 0.7854
Circumference by .07958
Square of $\frac{1}{2}$ Diameter by 3.1416

To Convert Temperatures

To Convert Centigrade to Fahrenheit:
Multiply by $\frac{9}{5}$ and add 32.
To Convert Fahrenheit to Centigrade:
Subtract 32 and Multiply by $\frac{5}{9}$

To Find Diameter

Multiply Circumference by
0.3183 or
Divide Circumference by
3.1416

To Find Side of an Equal Square

Multiply Diameter by
0.8862 or
Divide Diameter by
1.1284 or
Multiply Circumference by
0.2821 or
Divide Circumference by
3.545

To Find Surface of a Sphere or Globe

Multiply the Diameter by
the Circumference or
Multiply the Square of Diameter by
3.1416 or
Multiply Four Times the Square of
Radius by 3.1416

To Find Radius

Multiply Circumference by
0.15915
Divide Circumference by
6.28318

Square

A Side Multiplied by:
Diameter of its
1.4142 = Circumscribing Circle
Circumference of its
4.443 = Circumscribing Circle
Diameter of an
1.128 = Equal Circle
Circumference of an
3.547 = Equal Circle

To Find the Cubic Inches (Volume)

In a Sphere or Globe
Multiply the Cube
of the Diameter by
.5236

To Find the Weight of Brass and Copper Sheets, Rods and Bars

Ascertain the Number of Cubic Inches in Piece and Multiply
Same by Weight per Cubic Inch
Aluminum .0924; Brass .2960; Copper .3184; Steel .2816 or
Multiply Length by Breadth (in Feet) and Product by
Weight in Pounds per Square Foot

Basic Screw Thread Dimensions and Tap Drill Sizes of American National Coarse and Fine Thread Series

Screw Size	Threads per Inch		Basic Dimensions in Inches				Commercial Tap Drill to Produce Approx. 75% Full Thread		Body Drill	Decimal Equiv.	Screw Size	Threads per Inch		Basic Dimensions in Inches				Commercial Tap Drill to Produce Approx. 75% Full Thread	
	N C Coarse Thrd. Series	N F Fine Thrd. Series	Major Diam.	Pitch Diam.	Single Depth of Thrd.	Minor or Root Diam.	Tap Drill	Decimal Equiv.				N C Coarse Thrd. Series	N F Fine Thrd. Series	Major Diam.	Pitch Diam.	Single Depth of Thrd.	Minor or Root Diam.	Tap Drill	Decimal Equiv.
0		80	.060	.0519	.00812	.0438	.0469	.59	.0635		1/16	14		.4375	.3911	.04639	.3447	.4	.3640
1	64		.073	.0629	.01015	.0527	.53	.0595	.47	.0785	1/8		20	.4375	.4040	.03248	.3725	1/16	.3906
2	56		.086	.0744	.01166	.0628	.50	.0700	.42	.0935	1/8		20	.5000	.4500	.04996	.4001	1/16	.4219
3		64	.086	.0759	.01015	.0657	.50	.0700	.42	.0935	3/16							3/16	.4531
4		48	.099	.0855	.01353	.0719	.47	.0785	.37	.1040	3/16	12		.5625	.5084	.05413	.4542	3/16	.4944
5		36	.099	.0874	.01166	.0758	.45	.0820	.37	.1040	3/16		18	.5625	.5264	.04608	.4903	3/16	.5156
6		40	.112	.0958	.01624	.0793	.42	.0860	.31	.1200	3/16	11		.6250	.5660	.05905	.5069	1/2	.5313
7		48	.112	.0985	.01353	.0849	.42	.0935	.31	.1200	3/16		18	.6250	.5889	.05608	.5528	1/2	.5781
8			.125	.1058	.01624	.0925	.38	.1015	.29	.1360	3/16	10		.7500	.6850	.06495	.6201	1/2	.6562
9		44	.125	.1102	.01476	.0955	.37	.1040	.29	.1360	3/16		16	.7500	.7094	.06059	.6688	1/2	.6875
10		32	.138	.1177	.02030	.0974	.36	.1065	.27	.1440	3/16	9		.8750	.8028	.07217	.7307	3/4	.7656
11		40	.138	.1218	.01624	.1055	.33	.1130	.27	.1440	3/16		14	.8750	.8286	.06639	.7822	3/4	.8125
12		32	.164	.1437	.02030	.1234	.29	.1360	.18	.1695	1	8		1.0000	.9168	.08119	.8376	1	.8750
13		36	.164	.1460	.01804	.1279	.29	.1360	.18	.1695	1		14	1.0000	.9536	.08639	.9072	1	.9375
14	24		.190	.1629	.02706	.1359	.25	.1495	9	.1960	1 1/4	7		1.1250	1.0322	.09279	.9394	1 1/4	.9844
15		32	.190	.1697	.02030	.1494	.21	.1590	9	.1960	1 1/4		12	1.1250	1.0709	.09413	1.0167	1 1/4	1.0469
16	24		.216	.1889	.02706	.1619	.16	.1770	2	.2210	1 1/4	7		1.2500	1.1572	.09279	1.0644	1 1/4	1.1094
17		28	.216	.1928	.02320	.1696	.14	.1620	2	.2210	1 1/4		12	1.2500	1.1959	.09413	1.1417	1 1/4	1.1719
1/8	20		.2500	.2175	.03248	.1850	.7	.2010			1 1/2	6		1.3750	1.2667	.10825	1.1585	1 1/2	1.2158
9/16	18		.2500	.2268	.02320	.2036	.3	.2130			1 1/2		12	1.3750	1.3209	.09413	1.2667	1 1/2	1.2969
5/8	24		.3125	.2764	.03608	.2403	F	.2570			1 1/2	6		1.5000	1.3917	.10825	1.2835	1 1/2	1.3438
3/4	16		.3125	.2854	.02706	.2584	I	.2720			1 1/2		12	1.5000	1.4459	.09413	1.3917	1 1/2	1.4219
7/8			.3750	.3344	.04059	.2938	3/4	.3125			2	4 1/2		1.7500	1.6201	.12990	1.4902	1 1/2	1.5625
1	24		.3750	.3479	.02706	.3209	3/4	.3320			2	4 1/2		2.0000	1.8557	.14434	1.7113	1 1/2	1.7813

N C = American National Coarse Thread Series. N F = American National Fine Thread Series.
Pitch Diameter = Major diameter minus single depth of thread.
Single Depth of Thread = .6495 + Number of threads per inch.

Tap Drill: To find the diameter of a tap drill that will allow approximately 75% full thread, subtract the pitch (which is 1÷number of threads per inch) from the major diameter. The result will be the diameter of the drill. Select the drill nearest to this size.

Decimal Equivalents of Millimeters

Mm.	Inches	Mm.	Inches	Mm.	Inches	Mm.	Inches	Mm.	Inches	Mm.	Inches	Mm.	Inches	Mm.	Inches
.1	.00394	2.3	.09055	4.5	.17716	6.7	.26377	8.9	.35039	11.	.43307	13.1	.51574	16.	.62992
.2	.00787	2.4	.09448	4.6	.18110	6.8	.26771	9.	.35433	11.1	.43700	13.2	.51968	16.5	.64960
.3	.01181	2.5	.09842	4.7	.18503	6.9	.27165	9.1	.35826	11.2	.44094	13.3	.52362	17.	.66929
.4	.01575	2.6	.10236	4.8	.18897	7.	.27559	9.2	.36220	11.3	.44488	13.4	.52755	17.5	.70866
.5	.01968	2.7	.10629	4.9	.19291	7.1	.27952	9.3	.36614	11.4	.44881	13.5	.53149	18.	.74803
.6	.02362	2.8	.11023	5.	.19685	7.2	.28346	9.4	.37007	11.5	.45275	13.6	.53543	18.5	.78740
.7	.02756	2.9	.11417	5.1	.20078	7.3	.28740	9.5	.37401	11.6	.45669	13.7	.53936	19.	.82677
.8	.03149	3.	.11811	5.2	.20472	7.4	.29133	9.6	.37795	11.7	.46062	13.8	.54330	19.5	.86614
.9	.03543	3.1	.12204	5.3	.20866	7.5	.29527	9.7	.38188	11.8	.46456	13.9	.54724	20.	.90551
1.	.03937	3.2	.12598	5.4	.21259	7.6	.29921	9.8	.38582	11.9	.46850	14.	.55118	20.5	.94488
1.1	.04330	3.3	.12992	5.5	.21653	7.7	.30314	9.9	.38976	12.	.47244	14.1	.55511	21.	.98425
1.2	.04724	3.4	.13385	5.6	.22047	7.8	.30708	10.	.39370	12.1	.47637	14.2	.55905	21.5	.10236
1.3	.05118	3.5	.13779	5.7	.22440	7.9	.31102	10.1	.39763	12.2	.48031	14.3	.56299	22.	.10630
1.4	.05512	3.6	.14173	5.8	.22834	8.	.31496	10.2	.40157	12.3	.48425	14.4	.56692	22.5	.11023
1.5	.05905	3.7	.14566	5.9	.23228	8.1	.31889	10.3	.40551	12.4	.48818	14.5	.57086	23.	.11417
1.6	.06299	3.8	.14960	6.	.23622	8.2	.32283	10.4	.40944	12.5	.49212	14.6	.57480	23.5	.11811
1.7	.06692	3.9	.15354	6.1	.24015	8.3	.32677	10.5	.41338	12.6	.49606	14.7	.57873	24.	.12204
1.8	.07086	4.	.15748	6.2	.24409	8.4	.33070	10.6	.41732	12.7	.49999	14.8	.58267	24.5	.12598
1.9	.07480	4.1	.16141	6.3	.24803	8.5	.33464	10.7	.42125	12.8	.50393	14.9	.58661	25.	.12992
2.	.07874	4.2	.16535	6.4	.25196	8.6	.33858	10.8	.42519	12.9	.50787	15.	.59055	25.5	.13385
2.1	.08267	4.3	.16929	6.5	.25590	8.7	.34251	10.9	.42913	13.	.51181	15.5	.61023	26.	.13779
2.2	.08661	4.4	.17332	6.6	.25984	8.8	.34645								

Three-Wire Measurement of Pitch Diameter of Screw Threads

Various methods of measuring the pitch diameter of a thread, such as thread micrometers, ball point micrometers and with three wires, are commonly employed. Of the various methods which have been tried, the three-wire method has been found to be the most accurate and satisfactory when properly carried out.

Following are the Formulas for Use with Screw Thread Micrometer Calipers and the Three-Wire System

For 60° Sharp V and American National Forms

(American National Formerly Called U. S. Standard)

D = Outside Diameter of Screw.		S = Single Depth of U. S. Std. Thread	$\frac{.6495}{N}$
N = Number of Threads per Inch.		D = Pitch Diameter of Thread	$D - S$
P = Pitch of Thread.	$\frac{1.000}{N}$	WD = Wire Diameter	$P \times .57735$
S = Single Depth of V Thread.	$\frac{.8660}{N}$	DW = Diameter Over Wire	$(D - S) + (.86602 \times P)$

When selecting Wire other than correct size touching on pitch line, it should be the nearest size larger, using the following formula:

$$DW = (WJ \times 3) - (P \times .866025) \div D$$

Table of Standard Pitch for Metric Screw Threads

Size mm.	Pitch		Size mm.	Pitch		Size mm.	Pitch		Size mm.	Pitch	
	Intl. Std.	French Std.		Intl. Std.	French Std.		Intl. Std.	French Std.		Intl. Std.	French Std.
2	.45	.50	9	1.25	1.00	20	2.50	2.50	32		3.50
3	.55	.50	10	1.50	1.50	22	2.50	2.50	33	3.50	3.50
4	.70	.75	11	1.50		24	3.00	3.00	34		3.50
5	.85	.75	12	1.75	1.50	26		3.00	36	4.00	4.00
6	1.00	1.00	14	2.00	2.00	27	3.00		38		1.00
7	1.00	1.00	16	2.00	2.00	28		3.00	39	4.00	
8	1.25	1.00	18	2.50	2.50	30	3.50	3.50	40		1.00

Double Depth of Threads

Threads per Inch	Double Depth U. S. Standard Thread	Double Depth Sharp V Thread	Double Depth Whitworth Standard Thread	Threads per Inch	Double Depth U. S. Standard Thread	Double Depth Sharp V Thread	Double Depth Whitworth Standard Thread	Threads per Inch	Double Depth U. S. Standard Thread	Double Depth Sharp V Thread	Double Depth Whitworth Standard Thread
2 1/4	0.5774	0.1696	0.5692	9	0.1443	0.1925	0.1123	32	0.0406	0.0541	0.0400
2 1/2	0.5470	0.1293	0.5392	10	0.1299	0.1732	0.1221	34	0.0342	0.0509	0.0377
2 3/4	0.5196	0.0928	0.5123	11	0.1181	0.1575	0.1161	36	0.0381	0.0481	0.0356
3	0.4943	0.0598	0.4879	12	0.1083	0.1443	0.1067	38	0.0312	0.0456	0.0337
3 1/4	0.4724	0.0298	0.4657	13	0.0999	0.1332	0.0945	40	0.0325	0.0433	0.0320
3 1/2	0.4518	0.0025	0.4454	14	0.0928	0.1237	0.0915	42	0.0309	0.0412	0.0305
3 3/4	0.4330	0.5774	0.4269	15	0.0866	0.1155	0.0854	44	0.0295	0.0394	0.0291
4	0.3997	0.5322	0.3940	16	0.0812	0.1083	0.0800	46	0.0242	0.0377	0.0278
4 1/4	0.3712	0.4949	0.3659	18	0.0722	0.0962	0.0711	48	0.0271	0.0361	0.0267
4 1/2	0.3248	0.4300	0.3222	20	0.0650	0.0866	0.0640	50	0.0250	0.0346	0.0250
4 3/4	0.2887	0.3849	0.2846	22	0.0590	0.0787	0.0592	52	0.0250	0.0333	0.0246
5	0.2598	0.3464	0.2561	24	0.0511	0.0722	0.0534	54	0.0241	0.0321	0.0237
5 1/4	0.2362	0.3149	0.2328	26	0.0500	0.0666	0.0493	56	0.0232	0.0309	0.0229
5 1/2	0.2165	0.2887	0.2134	27	0.0481	0.0642	0.0474	58	0.0221	0.0299	0.0221
5 3/4	0.1856	0.2474	0.1830	28	0.0464	0.0619	0.0457	60	0.0217	0.0289	0.0213
6	0.1624	0.2185	0.1601	30	0.0433	0.0577	0.0427				

Double Depth for U. S. Standard Thread $\frac{1.299}{N}$

Double Depth for Sharp V Thread $\frac{1.732}{N}$

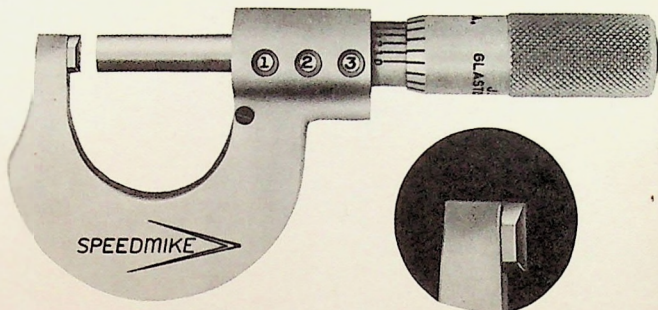
Double Depth for Whitworth Standard Thread $\frac{1.281}{N}$

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SLOCOMB MICROMETERS

FINE MICROMETERS SINCE 1891



PIPE TYPE SPEEDMIKE

Semi-cylindrical gaging surface anvil enters into tubing and pipe with $\frac{1}{2}$ " I.D. and larger providing full line contact with the surface for more precise measurement of wall thickness, especially when measuring resilient materials. They feature Speedmike's direct digital readout for accuracy.

Meets ASTM D2122 tube wall measurement requirements.

#501-13-007 in plastic case and with vernier for measuring in tenths (.0001").

#501-20-007 as above with friction thimble.



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